

## IN THE CLAIMS

Please amend the claims and add new claim 4 as follows:

1. (original) A synthetic quartz glass optical material used for the YAG laser with the third or higher order of harmonic, and especially, a synthetic quartz glass optical material for the YAG laser with higher harmonic characterized by OH group concentration in the range of  $\geq 1$  to  $\leq 300$ ppm, contained hydrogen molecule concentration in the range of  $\geq 2 \times 10^{18}$  to  $\leq 2 \times 10^{19}$  molecules/cm<sup>3</sup>, transmittance of ultraviolet rays at 245nm of wavelength with 99.9% or more, and fictive temperature in the range of  $\geq 880$  to  $\leq 990^\circ\text{C}$ .
2. (original) A synthetic quartz glass optical material for the YAG laser with higher harmonic as claimed in Claim 1, characterized in that chlorine concentration contained in the aforesaid synthetic quartz glass optical material is 20ppm or less.
3. (currently amended) A synthetic quartz glass optical material for the YAG laser with higher harmonic as claimed in Claim 1 [~~or Claim 2~~], characterized in that the aforesaid higher harmonic of YAG laser is the third, fourth or fifth order.
4. (new) A synthetic quartz glass optical material as claimed in Claim 2, wherein the aforesaid higher harmonic of the YAG laser is the third, fourth or fifth order.